HPE7-A03 Mock Exam

Shared by Scott on 17-06-2026

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Question 1

Question Type: MultipleChoice

which documentation resources con be used for finding validated information on Aruba products that assist the architect in building the solution design? (Select three.)

Options:

A- product reviews (CNET, Network World)
B- configuration guides
C- datasheets
D- Gartner annual reports
E- competitive documentation
F- validated Solution Guide

Answer:

B, C, F

Explanation:

When seeking validated information on Aruba products to assist in building a solution design, the most reliable resources include configuration guides (Option B), datasheets (Option C), and validated Solution Guides (Option F). Configuration guides provide detailed instructions and best practices for setting up and optimizing Aruba products, ensuring their proper integration into the network infrastructure. Datasheets offer concise overviews of product specifications, features, and capabilities, allowing architects to assess product suitability for specific requirements. Validated Solution Guides compile comprehensive information on deploying Aruba solutions in various scenarios, ensuring that the solution design is based on proven methodologies and recommended practices, thereby enhancing the reliability and performance of the network solution.

Question 2

Question Type: MultipleChoice

A large multinational financial institution has contracted you to design a new full-stack wired and wireless network for their new 6-story regional office building. The bottom two floors of this facility will be retail space for a large banking branch. The upper floors will be carpeted office

space for corporate users, each floor being approximately 100.000 sq ft (9290 sqm). Data centers are all off site and will be out of scope for this project. The customer is underserved by its existing L2-based network infrastructure and would like to take advantage of modern best practices in the new design. The network should be fully resilient and fault-tolerant, with dynamic segmentation at the edge.

The retail space will include public guest Wi-Fi access. Retail associates will have corporate tablets for customer service, and there will be a mix of wired and wireless devices throughout the retail floors. The corporate users will primarily use wireless for connectivity, but several wired clients, printers, and hard VoIP phones will be in use.

The customer is also planning on renovating the corporate office space in order to take advantage of "smart office' technology. These improvements will drive blue-dot wayfinding. presence analytics, and other location-based services

The client would take to ensure redundant RADIUS resources in each of their three geographical regions (AMER. EME

Options:

A- six licenses. C3000V
A- and APAC) A large office location Is available In each region with sufficient VMware resources available.
- Each region has 5.000 clients, all of which will need to do either 802.1 x wired or wireless authentications as well as 802.1 x authentication for a single personal device on Wi-Fi.
* All of the non-personal devices will also need to validate health with a local agent.
* A total of 500 guests are expected to be connected on average with a maximum of 700 simultaneous connections making use of Guest Portal for access to the Internet.
* TACACS authentication will also be configured for a total of 1,200 evenly dispersed NADs.
In order to support virtual IPs and server redundancy in each region how many Virtual Policy Manager Licenses will be needed?
B- six licenses. C2000V
C- three licenses. C3000V
D- three licenses. C2000V

Answer:

A, A

Explanation:

In a scenario requiring redundant RADIUS resources across three geographical regions, with the scale of operations as described, opting for six C3000V Virtual Policy Manager licenses would ensure adequate capacity and redundancy. The C3000V model is designed to cater to larger

deployments, offering high-capacity RADIUS services suitable for environments with thousands of clients and devices requiring authentication and health validation. By deploying two C3000V instances in each region (AMER, EMEA, and APAC), the financial institution can achieve both high availability and load balancing, ensuring that authentication services remain uninterrupted and efficient, even in the event of a server failure or during maintenance periods. This approach aligns with best practices for enterprise network design, emphasizing resilience and reliability in critical infrastructure components like authentication services.

Question 3

Question Type: MultipleChoice

The customer recently found out that Aruba OS-CX switches are capable of Application Recognition. What requirements should be fulfilled in order to do this? (Select two.)

Options:

A- 6400 with Aruba CX Advanced License
B- 6300F/M with Aruba CX Advanced License
C- 8360 with Aruba CX Advanced License
D- 6200F/M with Aruba CX Advanced License

Answer:

A

Explanation:

Aruba OS-CX switches, specifically the Aruba 6400 and 6300F/M models, are designed to support advanced networking features, including Application Recognition, with the Aruba CX Advanced License. The Advanced License enables enhanced capabilities such as deeper visibility into application flows, advanced routing features, and improved network analytics. Application Recognition allows these switches to identify and classify applications running on the network, enabling more intelligent and dynamic network policies and improving overall network performance and security. The requirement for an Aruba CX Advanced License on these specific models ensures that the necessary software features and support are available to leverage Application Recognition capabilities effectively.

Question 4

Question Type: MultipleChoice

You hired a junior engineer to assist you with a large-scale network infrastructure project. The engineer has never worked on such a complex project before and wants to better understand the role that each stakeholder will play in the project.

What is the role of the Network Designer/Architect in this project?

Options:

A- responsible 'or supporting, troubleshooting, and monitoring the wired/wireless infrastructure
B- responsible for Investigating IDS/IPS Incidents and managing firewalls
C- responsible for authoring the low-level design and creating the configuration to meet the technical requirements
D- responsible for establishing security policy and selecting security controls for the infrastructure

Answer:

C

Explanation:

The role of the Network Designer/Architect in a large-scale network infrastructure project is to develop a detailed technical design that meets the project's requirements. This involves authoring the low-level design documents, which include detailed network diagrams, device configurations, and implementation guidelines. The Network Designer/Architect must understand the technical specifications and business goals to create a solution that is not only technically sound but also aligned with the organization's objectives. This role is critical in ensuring that the network infrastructure is designed to be scalable, reliable, and secure, providing a solid foundation for the organization's operations.

Question 5

Question Type: MultipleChoice

ACME retail has 38 locations spread out across Ave US states and two provinces in Canad

a. They are looking to grow 20% over the next two years. They have an HO with a staff of 200

employees. The organization has eight Regional Managers and two VPs who work from home and the road. Stores typically have 17 employees on average per location.

The two warehouses have a remote loading system and 20 employees each to load the trucks and fulfill the online orders. The warehouse has 40-foot ceilings and large metal racks to store inventory. The main location is 240K sq ft (22300 st) m) and the Canadian warehouse Is 130K sq ft (12100 sq ml. The forkllfts on the loading docks are equipped with a wireless tablet on board.

A typical store Is reportedly about 60.000 sq ft (5575 sqm) and smaller stores are planned at 25.000 sq ft '2320 sq mi. The locations need to expand the abilities to vendors that need to add setup displays or Interactive kiosks in the stores. The current Infrastructure was installed In 2015 and used wireless N technology in a coverage model. The wiring is CatS. and they are unsure of the fiber connections. The inventory is all placed on the floor when it is delivered to the local store.

Inventory control is handled through Zebra barcode scanners, and they have had a lot of issues in getting signals throughout the stores and this makes monthly inventory difficult. The organization has a small help desk to troubleshoot issues that happen at the retail locations and PC support for the office. The company is looking to upgrade away from the current pbx system later this year. With the need to grow and cut costs, they are interested in moving the data to the cloud but need to get almost real-time inventory control for the online service to function.

The network has all been wired over the last ten years, but with the new systems being all wireless, they have seen the trend to offer wireless to all the vendors for their needs but also would like to allow employees, guests, and contractors all to use it. With the new IT director starting next week, the project has been set by the CTO of the company. The marketing group has asked how they can interact with the customers and get more info, while the IT support desk needs to cut staff in halt.

The. office has an MDF and two IDFs located on floors one and two. The HOF is in the basement, and you have multiple WAN circuits for the HO links. Each store has a local handoff from the cable company (ethernet) In the middle of the store in the office, so distance for the wiring is not an issue.

The customer has budget concerns but does want something that could last 7+ years.

Based on the scenario, where would you look to add additional items to the BOM to aid the company goals'(Select three.)

Options:

A- Building Facilities
B- Sales Management
C- Customer Experience Officer
D- Security Team/CISO
E- Marketing

F- Finance Team

Answer:

A, E, F

Explanation:

In addressing the company's goals and the challenges presented in the scenario, adding items to the Bill of Materials (BOM) that would involve the Building Facilities team could include infrastructure upgrades like improved cabling (moving from Cat5 to a higher category) or enhancements to support the new wireless and VoIP systems. For the Marketing team, technologies that could enable better interaction with customers, such as location-based services or analytics tools, would be beneficial. These could help in understanding customer behavior within the stores and tailoring marketing efforts accordingly. Finally, input from the Finance Team would be essential in ensuring that the solutions chosen fit within the budget constraints and offer a good return on investment, especially considering the company's desire for a solution that could last 7+ years and support their growth plans.

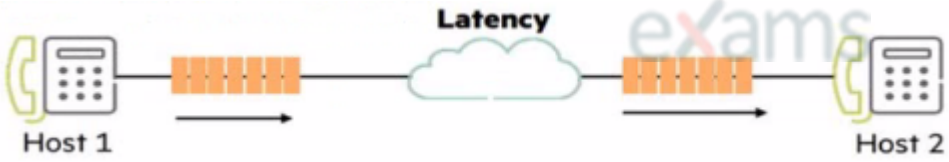
Question 6

Question Type: MultipleChoice

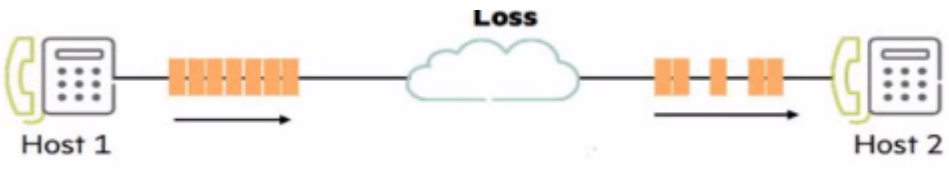
it has been identified that the client's existing network is having to retransmit packets due to possible hardware or configuration issues. A review of hardware configuration and transport reliability will need to be assessed prior to completing the new design.

What should this phenomenon be classified as?

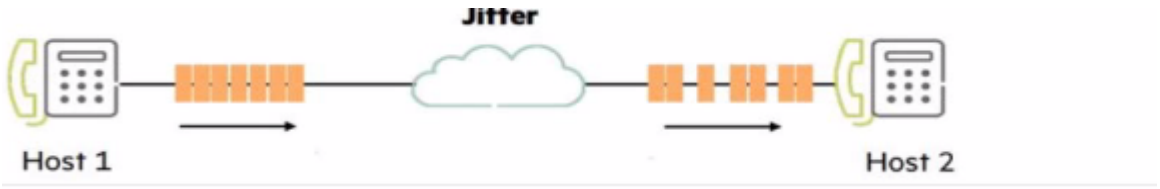
A)



B)



C)



Options:

A- Option A
B- Option B
C- Option C

Answer:

B

Explanation:

The phenomenon where packets have to be retransmitted due to possible hardware or configuration issues is classified as 'Loss,' depicted in Option B. Packet loss occurs when one or more packets of data traveling across a network fail to reach their destination, which can be caused by errors in data transmission, typically resulting from network congestion, hardware failure, or configuration errors. When packet loss occurs, protocols like TCP ensure that the data is retransmitted so that the integrity of the communication is maintained. In a network design, ensuring the reliability of hardware and proper configuration is critical to minimize packet loss.

Question 7

Question Type: MultipleChoice

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The customer has budget concerns but does want something that could last 7+ years.

What should the architect be concerned about regarding the solution? (Select two.)

Options:

A- IP addresses
B- Regulatory Domains
C- Active Directory
D- multiple locations

Answer:

B, D

Explanation:

In designing a network solution for ACME Retail, which operates across various regions in the US and Canada, the architect must consider Regulatory Domains and the challenges posed by multiple locations. Regulatory Domains are crucial because wireless standards and allowed frequencies vary by country, affecting how WLAN equipment is configured and deployed.

Compliance with local regulations is essential to avoid legal issues and ensure optimal network performance. The challenge of multiple locations involves ensuring consistent, high-quality network service across all sites, despite geographical distances and site-specific characteristics. This requires a scalable, flexible network architecture that can be centrally managed while accommodating the unique needs of each location.

Question 8

Question Type: MultipleChoice

Which is true when it comes to Aruba Central licensing for gateways? (Select two.)

Options:

A- Aruba Gateway normal licensing is subdivided into three categories: Foundation. Advanced, and Foundation Base.
B- SD-WAN Gateway functionality requires security licensing.
C- Aruba SD-8ranch Gateway licenses allow normal WLAN Gateway features within a campus.
D- Aruba WLAN Gateway licenses allow normal SD-Branch features within a campus.

Answer:

B, C

Explanation:

In the context of Aruba Central licensing for gateways, it is true that SD-WAN Gateway functionality requires a specific security licensing (Option B), which is essential for enabling advanced security features and capabilities in an SD-WAN deployment. This includes functionalities like firewall, threat management, and secure VPN connections. Additionally, Aruba SD-Branch Gateway licenses allow for the use of standard WLAN Gateway features within a campus environment (Option C). This means that with an SD-Branch Gateway license, the gateway can handle traditional WLAN management and security tasks, in addition to its SD-WAN capabilities, providing a unified solution for both branch and campus deployments.